

AUSA - NETWORK PANEL

6•DEC•07



Transforming the Force to an Expeditionary Army

LTC Jeff Sorenson

Chief Information Officer/G-6

AMERICA'S ARMY: THE STRENGTH OF THE NATION
ARMY STRONG



U.S. ARMY





Agenda



 **Persistent Conflict & Current Operating Environment**

 **Future Commercial Capabilities**

 **Future Directions: Network Service Center-Regional**

 **Conclusions**





Persistent Conflict



“**persistent conflict** ... a period of protracted confrontation among state, non-state, and individual actors who will increasingly use violence as a means of achieving their political and ideological objectives...

This protracted confrontation will be **fueled by six important trends**...

- ...positive and negative impact of globalization
- ...competition for energy
- ...demographic trends increase instability
- ...climate changes and natural disasters
- ...proliferation of weapons of mass destruction
- ...failed or failing states providing safe havens”



General George Casey, CSA
National Press Club, 14 Aug 07



Complex Operating Environments



MEDIA

EXTENDED BORDERS

“FENCE SITTERS”

EXTENDED DISTANCES

PHYSICAL

INFORMATION

HUMAN

**IDEOLOGICAL
CULTURAL**



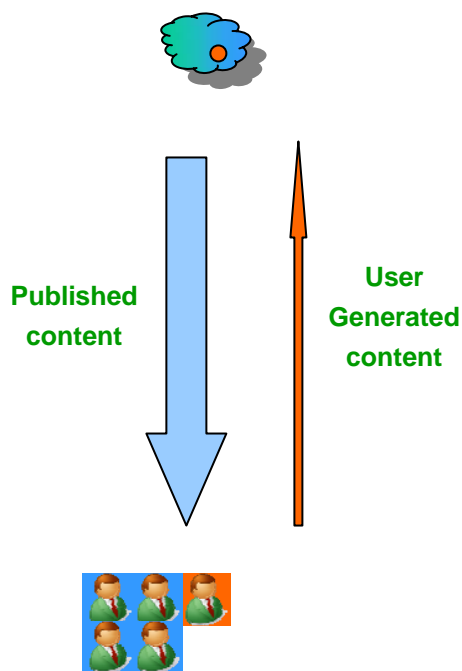
NETWORKS

“The prize in the counterinsurgency fight is...the people.” – COL Sean MacFarland, CDR, 1-1 AD, 1 May 2007

Web 1.0

“the mostly read-only web”

250,000 sites



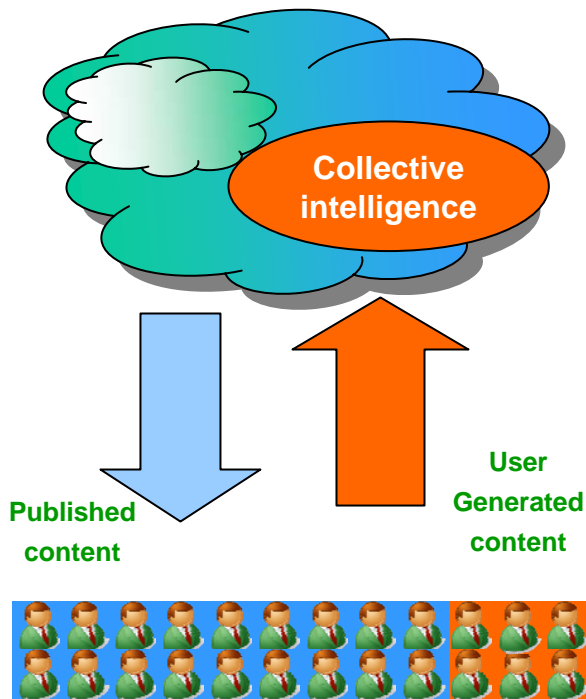
45 million global users

1996

Web 2.0

“the wildly read-write web”

80,000,000 sites



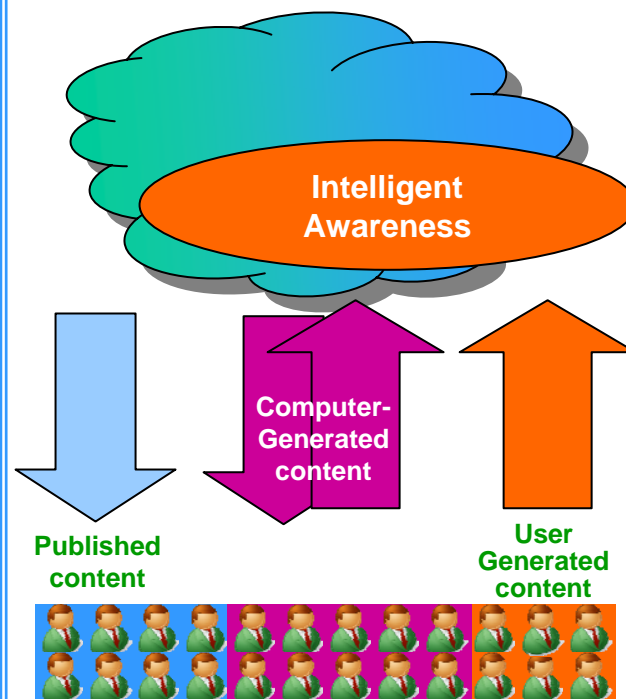
1 billion + global users

2006

Web 3.0

“nearly universal web”

8 billion sites



4 billion + human global users

4 billion + semi-autonomous computers

2020

The Problem

“Where is my stuff?”

356,000,000 Google hits

“Where is my Tank?”

67,800,000 Google hits

“Where is my M1A1 Tank?”

106,000 Google hits

“Where is SGT Smith’s M1A1 Tank?”

11,300 Google hits

“Where is SGT Smith’s M1A1 Tank in Iraq?”

998 Google hits

NOTE: Search preformed – 15 Nov 07



“Where is my Stuff?”

Time: 29DEC0912.25

YOU ARE: 241782222.2.11ACR.FT_{rp}

Your Location: 38.45.18N:78.23.19W

Your Tank's Location: 39.25.26N:77.43.10W

Traveling: WSW35MPH

ETA: 1.25HRS YOUR PRESENT

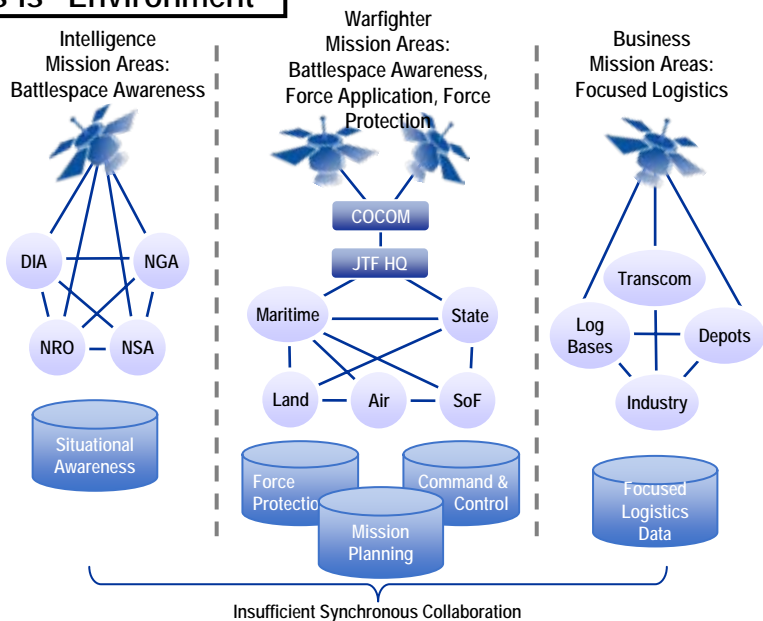
Would you like to see a map? >



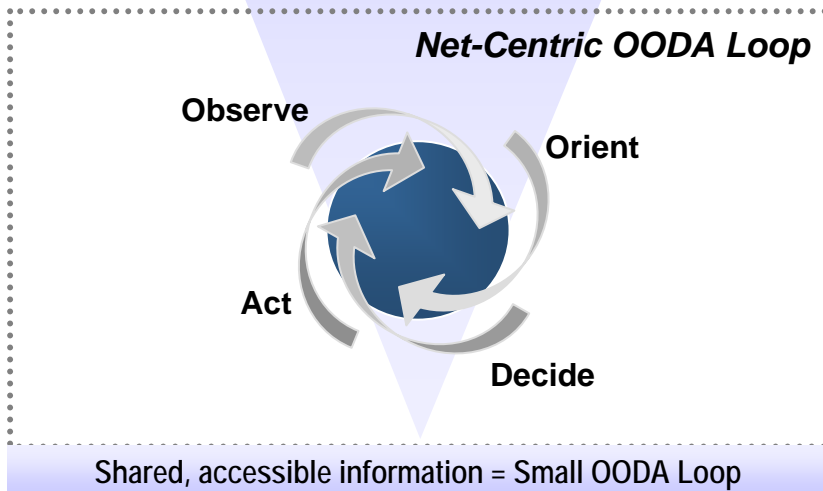
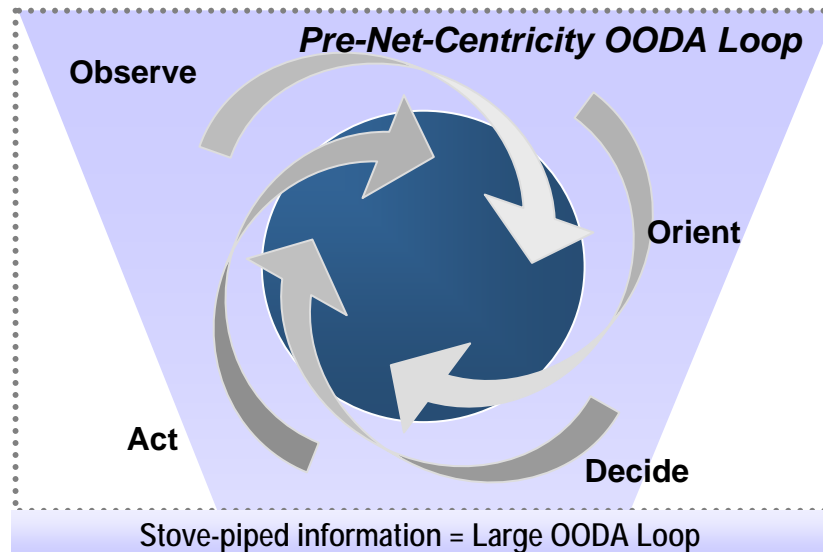
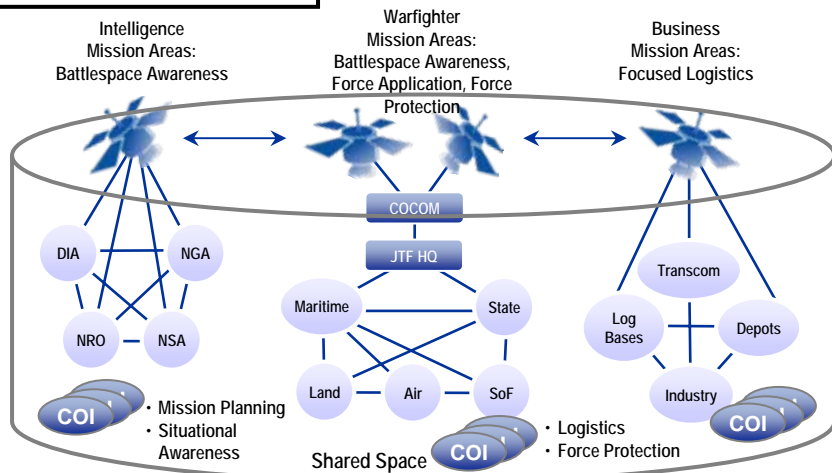


Net-Centricity – Breaking Down Stovepipes

"As-Is" Environment



"To-Be" Environment





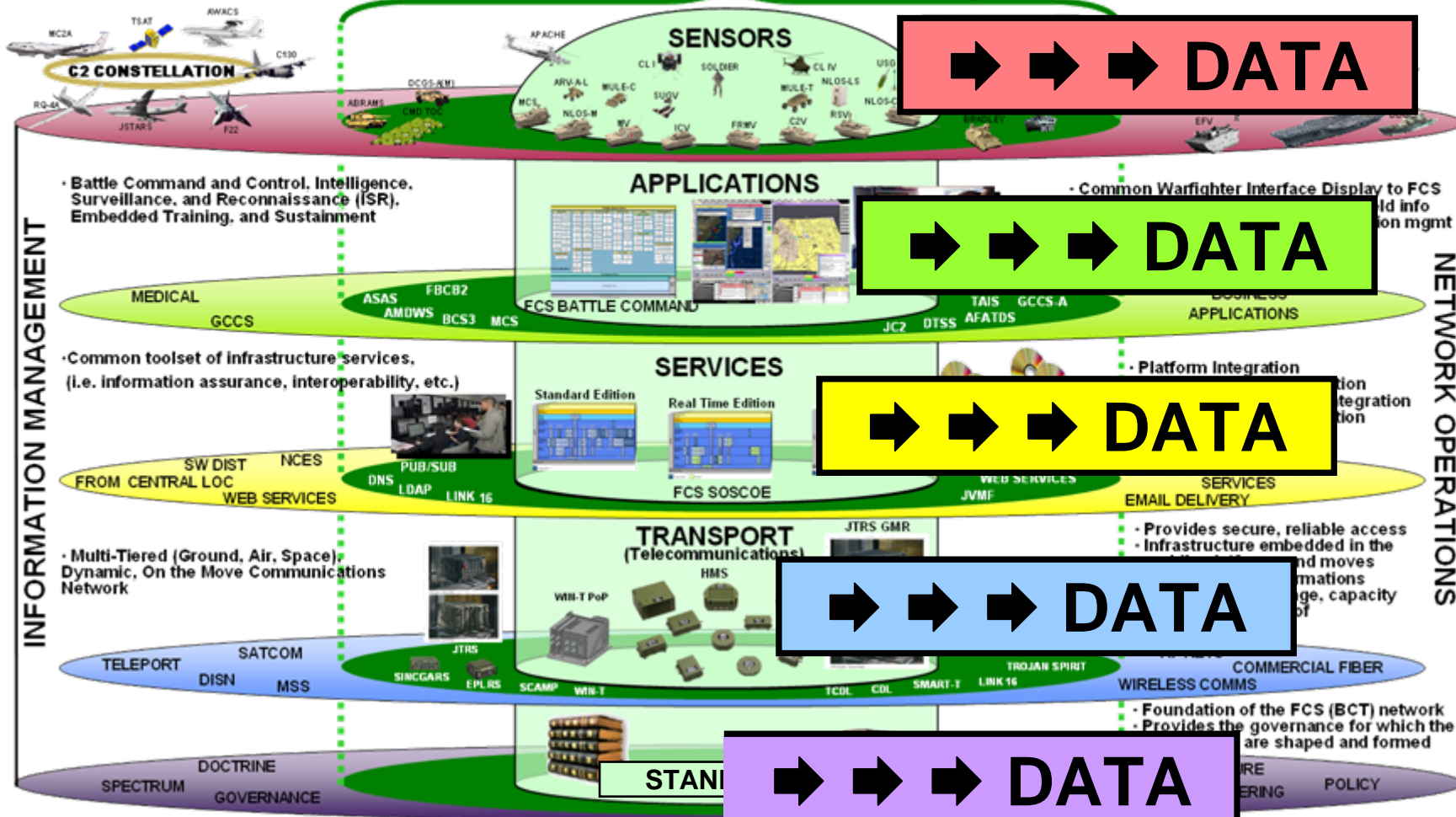
Global Information Grid (GIG)



GLOBAL INFORMATION GRID

LANDWARNET

• Suite of ground/air, manned/unmanned platforms, with a diverse set of sensors tailored to the warfighters needs



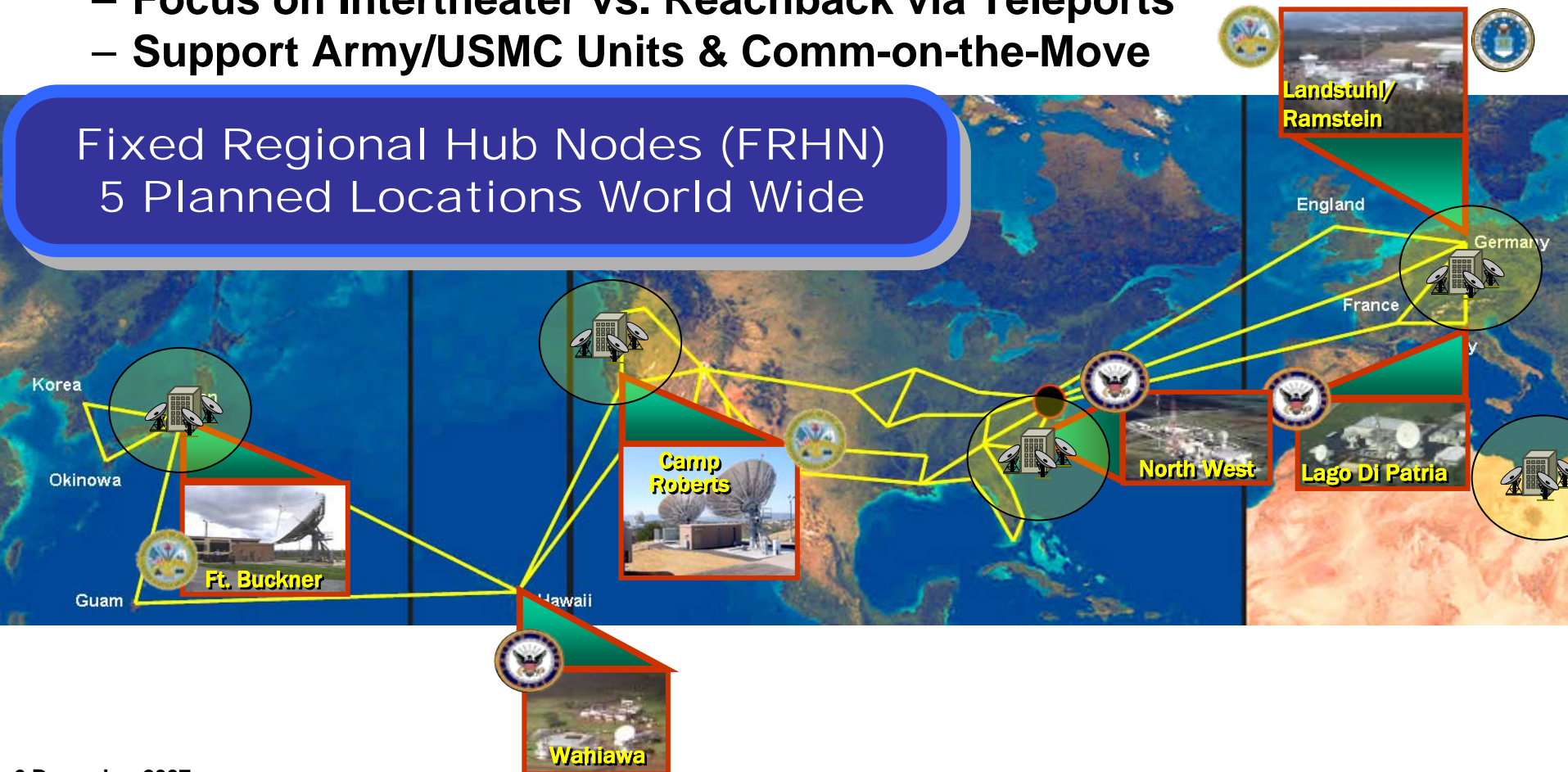


Fixed Regional Hub Nodes



- **Five locations to provide complete & overlapping coverage of Combatant Command Areas of Responsibility (AOR)**
 - All connected to the Global Information Grid (GIG)
 - Focus on Intertheater vs. Reachback via Teleports
 - Support Army/USMC Units & Comm-on-the-Move

Fixed Regional Hub Nodes (FRHN)
5 Planned Locations World Wide

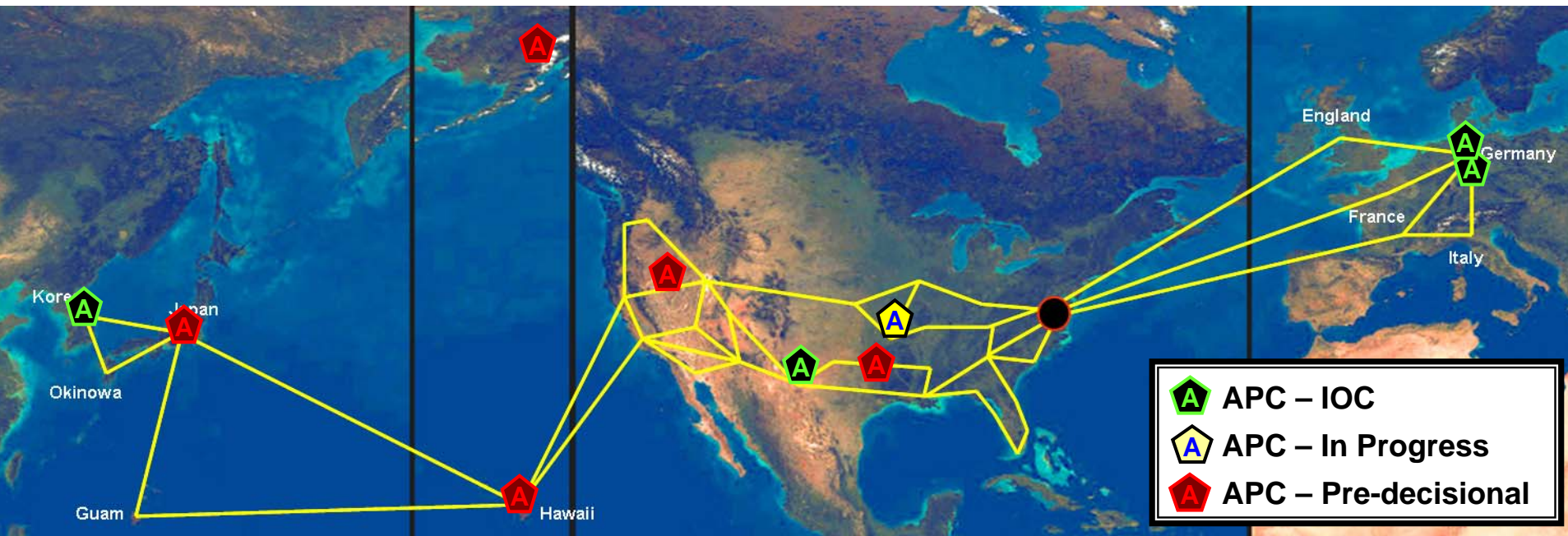




Area Processing Centers



- The purpose of the APC initiative is to improve delivery services through:
- Achieving Net-Centric Operations and Warfare Environment
 - Improving IA and Security Posture
 - Reducing Total Cost of Ownership (TCO) for Information Technology





Integrating Concept

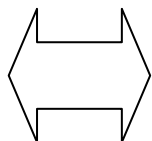


Network Service Center - Regional

Generating Force

Capabilities:

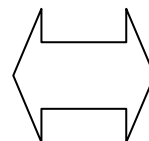
- I3MP
- NetOps
- KCs (AKO/DKO/...)
- Business Domain
- Intel Domain
- NCES
- APCs
- TNOSCs
- Net Svc Ctr – Tng (NSC-T)



Network Service Center – Regional

(Virtual Combination of Global Capabilities with a regional expression)

- Regional Hub Node (RHN)
- Area Processing Center (APC)
- AKO-F
- Theater Network Operations & Security Center (TNOSC)



Operational Army

Capabilities:

- WIN-T Increments (JNN-N)
- JTRS
- SATCOM
- NetOps
- Aerial Layer
- Transport for Trojan SPIRIT, CSS VSAT, SSET VSAT, BFT, PAONet, MedNet, etc.
- APCs
- RHNs
- NSC-Rs



A Soldier's Story



OPERATIONAL IT/DATA REQUIREMENTS:

NETWORK – constantly changing

E-MAIL ADDRESS – constantly changing/multiple

TELEPHONE NUMBER – constantly changing/multiple

COLLABORATION TOOLS – constantly changing

FILE STORAGE SYSTEM – constantly changing

Garrison



AKO-S
(NIPR/SIPR)

808-555-2020





Chat







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Deployed





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Power Projection



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A Soldier's Story



Ideal End-State

Universal E-Mail Address

Universal File Storage

One Telephone Number

**Standard Collaboration
Tool Set**





Conclusions



Persistent Conflict

...expeditionary environment for the future



Future Commercial Capabilities

...breaking down the stovepipes

...make data visible, accessible & understandable



Army Initiatives

...FRHN, APC, AKO-F & TNOSC

...Network Service Center-Regional



Joint-Shared Situational Awareness

...Bottom Line to Warfighter





Great Speaking "Team"



COL(P) Brian Donahue, USA
Director, LandWarNet Directorate
HQDA, G-3/5/7



Mr. David Ludwig, USA
Deputy, Program Executive Officer
Command, Control Communications
(Tactical)



Mr. Gary Winkler, USA
Director, Program Executive Officer
Enterprise Information Systems



LTG(Ret) Peter Cuvillo
Senior Strategist, Network Enabled
Operational Support, Bearing Point



Ms. Sheila Andahazy
Vice President, Defense Group,
Computer Science Corporation



QUESTIONS & THOUGHTS



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